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10	BRS	0	((("MPEG-7" and (index\$ or list)) and (audio or video)) and multimedia) and symantic	USPAT; EPO; JPO; IBM_TDB
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12	BRS	2	(((("MPEG-7" and (index\$ or list)) and (audio or video)) and multimedia) and semantic) and syntactic	USPAT; EPO; JPO; IBM_TDB
13	BRS	1	((((("MPEG-7" and (index\$ or list)) and (audio or video)) and multimedia) and semantic) and (matrix or matrices)) and syntactic	USPAT; EPO; JPO; IBM_TDB

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16	BRS	34	semantic and syntactic and (matrix or matrices).ab,ti,clm.	USPAT; EPO; JPO; IBM_TDB
17	BRS	N/A	(semantic and syntactic and (matrix or matrices).ab,ti,clm.) and link and index\$	USPAT; EPO; JPO; IBM_TDB
18	BRS	8	((semantic and syntactic and (matrix or matrices).ab,ti,clm.) and link and index\$) and (matrix or matrices)	USPAT; EPO; JPO; IBM_TDB
19	BRS	0	((semantic and syntactic and (matrix or matrices).ab,ti,clm.) and link and index\$) and ((matrix or matrices) near2 link)	USPAT; EPO; JPO; IBM_TDB
20	BRS	N/A	((semantic and syntactic and (matrix or matrices).ab,ti,clm.) and link and index\$) and ((matrix or matrices or map\$) near2 link)	USPAT; EPO; JPO; IBM_TDB
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33	BRS	209	((Table near content\$) same index\$).ab,ti,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB

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1 Compiling parallel code for sparse matrix applications	
Vladimir Kotlyar, Keshav Pingali, Paul Stodghill  November 1997 Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM)	
Full text available: pdf(161.83 KB)  Additional Information: full citation, abstract, references, citings	
We have developed a framework based on relational algebra for compiling efficient sparse matrix	
code from dense DO-ANY loops and a specification of the representation of the sparse matrix. In this	
paper, we show how this framework can be used to generate parallel code, and present experimental data that demonstrates that the code generated by our <i>Bernoulli</i> compiler achieves performance	
competitive with that of hand-written codes for important computational kernels.	
.  Keywords: parallelizing compilers, sparse matrix computations	
<sup>2</sup> A Survey of Interactive Graphical Systems for Mathematics	
Lyle B. Smith	
December 1970 ACM Computing Surveys (CSUR), Volume 2 Issue 4  Full text available:	
Full text available: pdf(5.05 MB)  Additional Information: full citation, references, citings, index terms	
<sup>3</sup> The unified probabilistic model for IR	
S. E. Robertson, M. E. Maron, W. S. Cooper	
May 1982 Proceedings of the 5th annual ACM conference on Research and development in information retrieval	
Full text available: pdf(431.54 KB) Additional Information: full citation, references, citings	
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Techniques for the translation of MATLAB programs into Fortran 90  Luiz De Rose, David Padua	
March 1999 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 21	
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This article describes the main techiques developed for FALCON's MATLAB-to-Fortran 90 compiler.	
FALCON is a programming environment for the development of high-performance scientific programs.	
It combines static and dynamic inference methods to translate MATLAB programs into Fortran 90. The static inference is supported with advanced value propagation techniques and symbolic	
algorithms for subscript analysis. Experiments show that FALCON's MATLAB translator can generate	
code that performs m	
Keywords: MATLAB, array language compilation, inference	

Bitmap index design and evaluation

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Chee-Yong Chan, Yannis E. Ioannidis ACM SIGMOD Record, Proceedings of the 1998 ACM SIGMOD international conference on Management of data, Volume 27 Issue 2 Additional Information: full citation, abstract, references, citings, index terms Full text available: pdf(1.44 MB) Bitmap indexing has been touted as a promising approach for processing complex adhoc queries in read-mostly environments, like those of decision support systems. Nevertheless, only few possible bitmap schemes have been proposed in the past and very little is known about the space-time tradeoff that they offer. In this paper, we present a general framework to study the design space of bitmap indexes for selection queries and examine the disk-space and time characteristics that the various al ... A dictionary of APL Kenneth E. Iverson September 1987 ACM SIGAPL APL Quote Quad, Volume 18 Issue 1 Additional Information: full citation, citings, index terms Full text available: pdf(3.34 MB) Problems in the simulation of bibliographic retrieval systems Jean Tague, Michael Nelson, Harry Wu Proceedings of the 3rd annual ACM conference on Research and development in information retrieval Full text available: pdf(638.90 KB) Additional Information: full citation, references, citings An Introduction to Rlab Ian Searle June 1996 Linux Journal Full text available: html(24.39 KB) Additional Information: full citation, abstract, index terms A computational tool for scientific and engineering applications Silk from a sow's ear: extracting usable structures from the Web Peter Pirolli, James Pitkow, Ramana Rao Proceedings of the SIGCHI conference on Human factors in computing systems: April 1996 common ground Full text available: pdf(1.26 MB) html Additional Information: full citation, references, citings, index terms (35,72 KB) Keywords: World Wide Web, hypertext, information visualization Providing better support for a class of decision support queries Sudhir G. Rao, Antonio Badia, Dirk van Gucht

ACM SIGMOD Record, Proceedings of the 1996 ACM SIGMOD international conference on Management of data, Volume 25 Issue 2

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Relational database systems do not effectively support complex queries containing quantifiers (quantified queries) that are increasingly becoming important in decision support applications. Generalized quantifiers provide an effective way of expressing such queries naturally. In this paper, we consider the problem of processing quantified queries within the generalized quantifier framework. We demonstrate that current relational systems are ill-equipped, both at the language and at ...

## Notation as a tool of thought

Kenneth E. Iverson

August 1980 Communications of the ACM, Volume 23 Issue 8

Full text available: pdf(3.81 MB)

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Keywords: APL, mathematical notation

## 12 Vector space model of information retrieval: a reevaluation

S. K. M. Wong, Vijay V. Raghavan

July 1984 Proceedings of the 7th annual international ACM SIGIR conference on Research and development in information retrieval

Full text available: pdf(832,89 KB)

Additional Information: full citation, abstract, references, citings

In this paper we, in essence, point out that the methods used in the current vector based systems are in conflict with the premises of the vector space model. The considerations, naturally, lead to how things might have been done differently. More importantly, it is felt that this investigation will lead to a clearer understanding of the issues and problems in using the vector space model in information retrieval.

## 13 Exact arithmetic at low cost—a case study in linear programming

Bernd Gärtner

January 1998 Proceedings of the ninth annual ACM-SIAM symposium on Discrete algorithms

Full text available: pdf(1.14 MB)

Additional Information: full citation, references, citings, index terms

## <sup>14</sup> An approach to communication-efficient data redistribution

S. D. Kaushik, C.-H. Huang, R. W. Johnson, P. Sadayappan

July 1994 Proceedings of the 8th international conference on Supercomputing

Full text available: pdf(990.80 KB)

Additional Information: full citation, abstract, references, citings, index terms

We address the development of efficient methods for performing data redistribution of arrays on distributed-memory machines. Data redistribution is important for the distributed-memory implementation of data parallel languages such as High Performance Fortran. An algebraic representation of regular data distributions is used to develop an analytical model for evaluating the communication cost of data redistribution. Using this algebraic representation and the analytical model, an approach t ...

**Keywords**: Tensor products, data communication, data distribution, distributed-memory machine, high performance Fortran

#### 15 Data-centric multi-level blocking

Induprakas Kodukula, Nawaaz Ahmed, Keshav Pingali

May 1997 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLAN 1997 conference on Programming language design and implementation, Volume 32 Issue 5

Full text available: pdf(1.75 MB)

Additional Information: full citation, abstract, references, citings, index terms

We present a simple and novel framework for generating blocked codes for high-performance machines with a memory hierarchy. Unlike traditional compiler techniques like tiling, which are based on reasoning about the control flow of programs, our techniques are based on reasoning directly about the flow of data through the memory hierarchy. Our data-centric transformations permit a more direct solution to the problem of enhancing data locality than current control-centric techniques do, and genera ...

## <sup>16</sup> Message extraction through estimation of relevance

Christopher Landauer, Clinton Mah

June 1980 Proceedings of the 3rd annual ACM conference on Research and development in information retrieval

Full text available: pdf(1.16 MB)

Additional Information: full citation, references, citings

## 17 Techniques for measuring the stability of clustering: a comparative study

Vijay V. Raghavan, M. Y. L. Ip

May 1982 Proceedings of the 5th annual ACM conference on Research and development in information retrieval

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Additional Information: full citation, abstract, references, citings

Among the significant factors in assessing the suitability of a clustering technique to a given application is its stability; that is, how sensitive the algorithm is to perturbations in the input data. A

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number of techniques that appear to be suitable for measuring the stability of clustering have been published in the literature. The details about each of these measures, such as a description of the steps involved in their computation and an identification of precisely what they measure, are pr ...

## <sup>18</sup> An efficient bitmap encoding scheme for selection queries

Chee-Yong Chan, Yannis E. Ioannidis

ACM SIGMOD Record, Proceedings of the 1999 ACM SIGMOD international conference on Management of data, Volume 28 Issue 2

Full text available: pdf(1.33 MB)

Additional Information: full citation, abstract, references, citings, index terms

Bitmap indexes are useful in processing complex queries in decision support systems, and they have been implemented in several commercial database systems. A key design parameter for bitmap indexes is the encoding scheme, which determines the bits that are set to 1 in each bitmap in an index. While the relative performance of the two existing bitmap encoding schemes for simple selection queries of the form "v1  $\leq$  A

## 19 Model-based motion estimation for synthetic animations

Maneesh Agrawala, Andrew C. Beers, Navin Chaddha

January 1995 Proceedings of the third ACM international conference on Multimedia

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# Media lessons from the national capital FreeNet

Andrew S. Patrick

July 1997 Communications of the ACM, Volume 40 Issue 7

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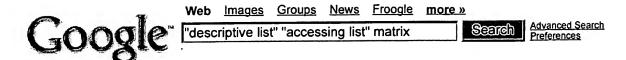
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